

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/24/2023

Reviewed on 10/24/2023

## 1 Identification

- **Product identifier**
- **Trade name:** *WAKOL MS 330 Moisture Barrier*
- **Application of the substance / the mixture** *Priming*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Loba-Wakol, LLC  
2732 Hwy 74 West  
Wadesboro, NC 28170, USA  
info@loba-wakol.com  
+1 704 527 5919*
- **Information department:** *Product safety department.*
- **Emergency telephone number:**  
*Emergency CONTACT (24-Hour-Number)  
GBK/Infotrac ID 98229: (USA domestic) 1 800 535 5053 or  
International (001) 352 323 3500*

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



*Sensitization - Skin 1 H317 May cause an allergic skin reaction.*

- **Additional information:** *Markings on the basis of internal knowledge (See section 11).*

- **Label elements**

- **GHS label elements**

*The product is classified and labeled according to the Globally Harmonized System (GHS).*

- **Hazard pictograms**



GHS07

- **Signal word** *Warning*

- **Hazard-determining components of labeling:**

*3-aminopropyltriethoxysilane*

- **Hazard statements**

*May cause an allergic skin reaction.*

- **Precautionary statements**

*Avoid breathing dust/fume/gas/mist/vapors/spray*

*Contaminated work clothing must not be allowed out of the workplace.*

*Wear protective gloves.*

*If on skin: Wash with plenty of water.*

*If skin irritation or rash occurs: Get medical advice/attention.*

*Wash contaminated clothing before reuse.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

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**Trade name: WAKOL MS 330 Moisture Barrier**

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- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	*0	Health = *0
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

<p>13822-56-5 3-(trimethoxysilyl)propylamine</p> <p>⚠ Eye Damage 1, H318; ⚠ Skin Irritation 2, H315; Flammable Liquids 4, H227</p>	<p>&gt;1–≤2.5%</p>
<p>919-30-2 3-aminopropyltriethoxysilane</p> <p>⚠ Skin Corrosion 1B, H314; ⚠ Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317; Flammable Liquids 4, H227</p>	<p>&gt;0.25–≤1%</p>
<p>2996-92-1 Trimethoxyphenylsilane</p> <p>⚠ Flammable Liquids 3, H226; ⚠ Specific Target Organ Toxicity - Repeated Exposure 2, H373; ⚠ Acute Toxicity - Oral 4, H302</p>	<p>&gt;0.25–≤1%</p>

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Clean with water and soap. If possible, also wash with polyethylene glycol 400.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

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**5 Fire-fighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

· **PAC-1:**

13822-56-5 3-(trimethoxysilyl)propylamine: 30 mg/m<sup>3</sup>

919-30-2 3-aminopropyltriethoxysilane: 1.9 mg/m<sup>3</sup>

2996-92-1 Trimethoxyphenylsilane: 0.59 mg/m<sup>3</sup>

· **PAC-2:**

13822-56-5 3-(trimethoxysilyl)propylamine: 330 mg/m<sup>3</sup>

919-30-2 3-aminopropyltriethoxysilane: 21 mg/m<sup>3</sup>

2996-92-1 Trimethoxyphenylsilane: 6.5 mg/m<sup>3</sup>

· **PAC-3:**

13822-56-5 3-(trimethoxysilyl)propylamine: 2,000 mg/m<sup>3</sup>

919-30-2 3-aminopropyltriethoxysilane: 350 mg/m<sup>3</sup>

2996-92-1 Trimethoxyphenylsilane: 39 mg/m<sup>3</sup>

**7 Handling and storage**

- **Handling:**
- **Precautions for safe handling** Use only in well ventilated areas.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.

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- **Further information about storage conditions:**  
Protect from humidity and water.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:**  
The lists that were valid during the creation were used as basis.  
See Section 10.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:**



Protective gloves

Preventive skin protection by use of skin-protecting agents is recommended.

- **Material of gloves**  
Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.35$  mm  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

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**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form: Fluid
  - Color: Blue
- **Odor:** Characteristic
- **Odor threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** Undetermined.
- **Flash point:** >100 °C (>212 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **Decomposition temperature:** Not determined.
- **Ignition temperature:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.
- **Vapor pressure:** Not determined.
- **Density at 20 °C (68 °F):** 1.1 g/cm<sup>3</sup> (9.18 lbs/gal) (EN ISO 2811-1)
- **Relative density** Not determined.
- **Vapor density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**
  - Water: Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic at 20 °C (68 °F): 600 mPas (ISO 2555)
  - Kinematic: Not determined.
  - Organic solvents: 0.1 %
  - VOC content: 0.1 %
- **Other information** No further relevant information available.

**10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.

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- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.
- **Additional information:** Product releases low quantities of methanol during appropriated application.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

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**13822-56-5 3-(trimethoxysilyl)propylamine**  
Oral LD50 4,000 mg/kg (rat)  
Dermal LD50 >10,000 mg/kg (rabbit)  
Inhalative ATE mix 4h 618 mg/l (rat)

**919-30-2 3-aminopropyltriethoxysilane**  
Oral LD50 1,490–2,690 mg/kg (rat) (EPA)  
Dermal LD50 4,076 mg/kg (rabbit) (EPA)  
Inhalative LC50/6h >144 mg/l (rat) (OECD TG 403)
- **Primary irritant effect:**
- **on the eye:** Based on available data, the classification criteria are not met (No irritant effect - OECD 405).
- **Subacute to chronic toxicity:**

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**919-30-2 3-aminopropyltriethoxysilane**  
Oral NOAEL/90d 200 mg/kg (rat) (OECD RG 408)
- **Additional toxicological information:**  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**

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None of the ingredients is listed.
- **NTP (National Toxicology Program)**

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None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**

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None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:**

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**13822-56-5 3-(trimethoxysilyl)propylamine**  
LC50/96h >934 mg/l (Danio rerio)  
EC50/48h 331 mg/l (Daphnia magna)  
EC50/72h >1,000 mg/l (Desmodesmus subspicatus)

**919-30-2 3-aminopropyltriethoxysilane**  
LC0/96h >934 mg/l (Brachydanio rerio) (OECD TG 203)  
EC50/48h 331 mg/l (Daphnia magna) (OECD TG 202)

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EC50/72h >1,000 mg/l (*Scenedesmus subspicatus*) (OECD TG 201)

EC10/5h 13 mg/l (*Pseudomonas putida*)

NOEC/72h 1.3 mg/l (*Scenedesmus subspicatus*) (OECD TG 201)

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

· **UN-Number**

· **DOT, ADR, ADN, IMDG, IATA** Void

· **UN proper shipping name**

· **DOT, ADR, ADN, IMDG, IATA** Void

· **Transport hazard class(es)**

· **DOT, ADR, ADN, IMDG, IATA**

· **Class** Void

· **Packing group**

· **DOT, ADR, IMDG, IATA** Void

· **Environmental hazards:** Not applicable.

· **Special precautions for user** Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:** Not dangerous according to the above specifications.

· **DOT**

· **Remarks:** not regulated

· **ADR**

· **Remarks:** not regulated

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- **IMDG**
- **Remarks:** *not regulated*

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- **IATA**
- **Remarks:** *not regulated*
- **UN "Model Regulation":** *Void*

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):**  
*None of the ingredient is listed.*
- **Section 313 (Specific toxic chemical listings):**  
*None of the ingredients is listed.*
- **TSCA (Toxic Substances Control Act):**  
*All ingredients are listed or are not required to be listed on the TSCA inventory.*
- **Hazardous Air Pollutants**  
*None of the ingredients is listed.*
- **Proposition 65**
- **Chemicals known to cause cancer:**  
*None of the ingredients is listed.*
- **Chemicals known to cause reproductive toxicity for females:**  
*None of the ingredients is listed.*
- **Chemicals known to cause reproductive toxicity for males:**  
*None of the ingredients is listed.*
- **Chemicals known to cause developmental toxicity:**  
*None of the ingredients is listed.*
- **New Jersey Right-to-Know List:**  
*None of the ingredients is listed.*
- **New Jersey Special Hazardous Substance List:**  
*None of the ingredients is listed.*
- **Pennsylvania Right-to-Know List:**  
*None of the ingredients is listed.*
- **Pennsylvania Special Hazardous Substance List:**  
*None of the ingredients is listed.*
- **GHS label elements**  
*The product is classified and labeled according to the Globally Harmonized System (GHS).*
- **Hazard pictograms**



GHS07

- **Signal word** *Warning*
- **Hazard-determining components of labeling:**  
*3-aminopropyltriethoxysilane*

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**· Hazard statements***May cause an allergic skin reaction.***· Precautionary statements***Avoid breathing dust/fume/gas/mist/vapors/spray**Contaminated work clothing must not be allowed out of the workplace.**Wear protective gloves.**If on skin: Wash with plenty of water.**If skin irritation or rash occurs: Get medical advice/attention.**Wash contaminated clothing before reuse.**Dispose of contents/container in accordance with local/regional/national/international regulations.***· National regulations:****· VOC:****· VOC (EU)** 1.0 g/l**· VOC (USA):** 1.0 g/l / 0.01 lb/gal**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Relevant phrases***H226 Flammable liquid and vapor.**H227 Combustible liquid.**H302 Harmful if swallowed.**H314 Causes severe skin burns and eye damage.**H315 Causes skin irritation.**H317 May cause an allergic skin reaction.**H318 Causes serious eye damage.**H373 May cause damage to organs through prolonged or repeated exposure.***· Contact:****· Date of preparation / last revision** 10/24/2023**· Abbreviations and acronyms:***ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**DOT: US Department of Transportation**IATA: International Air Transport Association**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**NFPA: National Fire Protection Association (USA)**HMIS: Hazardous Materials Identification System (USA)**VOC: Volatile Organic Compounds (USA, EU)**MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**OSHA: Occupational Safety & Health**TLV: Threshold Limit Value**PEL: Permissible Exposure Limit**REL: Recommended Exposure Limit**Flammable Liquids 3: Flammable liquids – Category 3**Flammable Liquids 4: Flammable liquids – Category 4**Acute Toxicity - Oral 4: Acute toxicity – Category 4*

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*Skin Corrosion 1B: Skin corrosion/irritation – Category 1B*

*Skin Irritation 2: Skin corrosion/irritation – Category 2*

*Eye Damage 1: Serious eye damage/eye irritation – Category 1*

*Sensitization - Skin 1: Skin sensitisation – Category 1*

*Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2*

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